

Abstract

Method of fabricating an electromagnetic-radiation-emitting semiconductor chip and

5 electromagnetic-radiation-emitting semiconductor chip

In a method of fabricating a radiation-emitting semiconductor chip based on AlGaInP, comprising the method steps of preparing a substrate, applying to the substrate a semiconductor layer sequence comprising a photon-emitting active layer, and applying a transparent decoupling layer

10 comprising $(\text{Ga}_x(\text{In}_y\text{Al}_{1-y})_{1-x})\text{P}$ wherein $0.8 \leq x$ and $0 \leq y \leq 1$, it is provided according to the invention that the substrate is made of germanium and that the transparent decoupling layer is applied at low temperature.

Figure 1